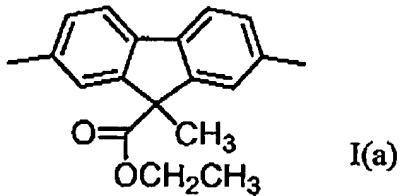
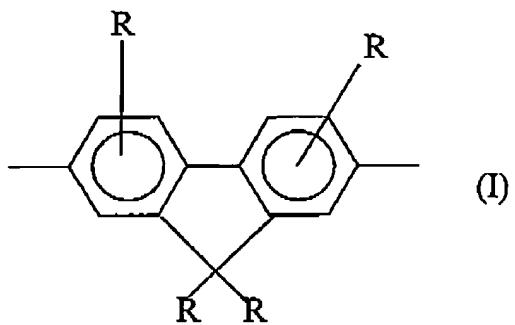
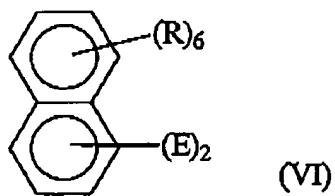


Listing of Claims

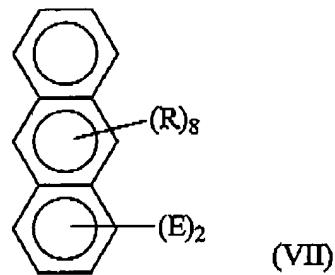
1. (Currently amended) A copolymer comprising at least one first monomeric unit and at least one second monomeric unit, wherein the at least one first monomeric unit has a Formula I and I(a)



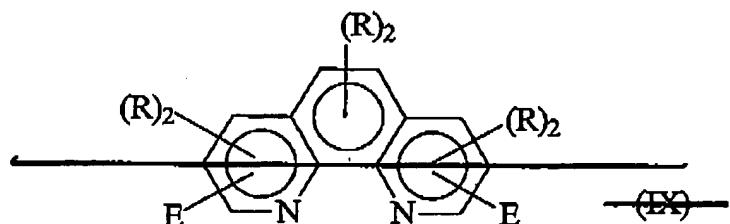
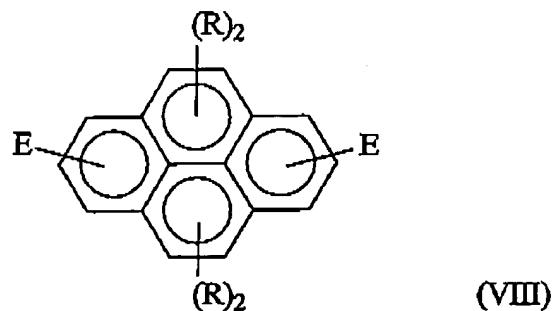
and the at least one second monomeric unit is selected from fused ring aromatic groups having Formula VI,

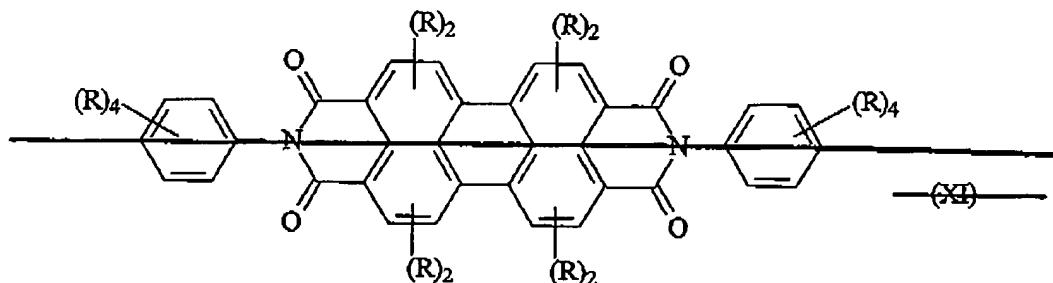
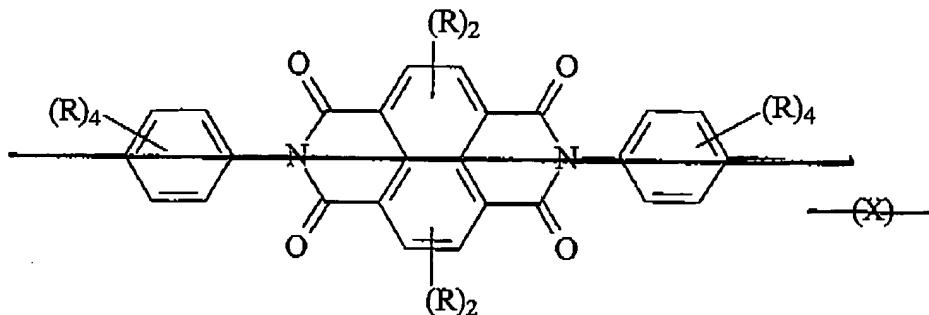


Formula VII,



and Formula VIII

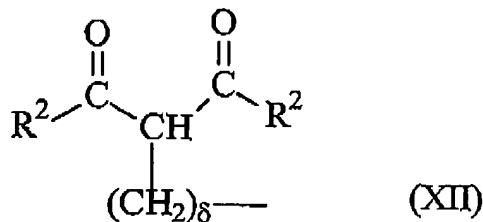




where:

in each of Formulae I, I(a), VI, VII, and VIII:

R is a substituent on a carbon atom which can be the same or different at each occurrence and is selected from hydrogen, alkyl, aryl, heteroalkyl, heteroaryl, F, -CN, -OR¹, -CO₂R¹, -C_ψH_θF_λ, -OC_ψH_θF_λ, -SR¹, -N(R¹)₂, -P(R¹)₂, -SOR¹, -SO₂R¹, -NO₂, and beta-dicarbonyls having Formula XII



and as further described below under "Formula XII"; or wherein
R² is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl;
δ is 0 or an integer from 1 to 12, adjacent R groups together can form a 5- or 6-
membered cycloalkyl, aryl, or heteroaryl ring,
such that:

R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl; and
ψ is an integer between 1 and 20, and θ and λ are integers satisfying Equation A1 below:

$$\theta + \lambda = 2\psi + 1; \quad (\text{Equation A1});$$

in each of Formulae VI, VII, and VIII:

E can be the same or different at each occurrence and is a single bond or a linking group selected from arylene and heteroarylene;

in Formula VI[[::]]:

the two E's are in the 1,4-, 1,5-, 1,8-, 2,3-, or 2,6- positions;

in Formula VII[[::]]:

the two E's are in the 1,4-, 1,5-, 1,8-, 2,3-, 2,6-, or 9,10- positions;

in Formula VIII[[::]]:

a first E is in the 1, 2, or 3 position, a second E is in the 6, 7, or 8 position;
 and

in Formula XII:

R² is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl;
δ is 0 or an integer from 1 to 12, and with the proviso that when R in formulae VI, VII, and VIII is hydrogen, alkyl, F, -CN, -OR¹, or CO₂R¹ the copolymer further comprises end-capping groups that are aromatic[[.]];
and with the further proviso that said copolymer does not consist of 9,9-di-n-octylfluorene and unsubstituted naphthalene alternating copolymer.

2. (Original) The copolymer of Claim 1, wherein R groups in one or more of the at least one first monomeric unit are independently selected from alkyl groups having 1 to 30 carbon atoms; heteroalkyl groups having 1-30 carbon atoms and one or more heteroatoms of S, N, or O; aryl groups having from 6 to 20 carbon atoms, and heteroaryl groups having from 2 to 20 carbon atoms and one or more heteroatoms of S, N, or O.

3. (Original) The copolymer of Claim 1 that excludes any vinylene monomeric units.

4. (Previously Presented) The copolymer of Claim 1 wherein each R group in each of Formula I, Formula 1(a), Formula VI, Formula VII, and Formula VIII is selected from:

hydrogen;

alkyl;

aryl;

heteroalkyl;

heteroaryl;

F;

-CN;

-P(R¹)₂ and -SOR¹, where R¹ is a substituent on a heteroatom which can be the same or different at each occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl;

-NO₂;

a beta-dicarbonyl having Formula XII;

-C_ψH_θF_λ;

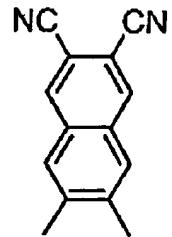
-OC_ψH_θF_λ;

-OR¹, -CO₂R¹, -SR¹, -N(R¹)₂, and -SO₂R¹ where R¹ is a straight chain or branched alkyl of more than 20 carbons or a straight chain or branched heteroalkyl.

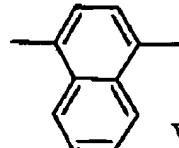
5. (Original) The copolymer of Claim 1 wherein the at least one of the R groups in one or more of the at least one first monomeric unit is independently selected from linear and branched n-butyl groups; linear and branched iso-butyl groups; linear and branched pentyl groups; hexyl groups, and octyl groups with and without olefinic unsaturation; phenyl groups, thiophene groups, carbazole groups, alkoxy groups, phenoxy groups and cyano groups.

6. (Original) The copolymer of Claim 1 wherein at least one of the R groups in one or more of the at least one first monomeric unit are independently selected from H, C₆-C₁₂ alkoxy, phenoxy, C₆-C₁₂ alkyl, phenyl and cyano.

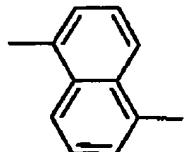
7. (Previously Presented) The copolymer of Claim 1 wherein one or more of the at least one second monomeric unit is selected from Formulae VI(a) through VI(d), and VII(a)



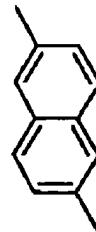
VI(a)



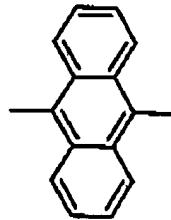
VI(b)



VI(c)



VI(d)

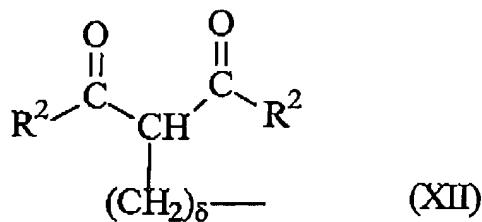


VII(a)

8. (Cancelled).

9. (Previously Presented) The copolymer of Claim 1, wherein one or more of the at least one second monomeric unit has Formula VI, VII and VIII: wherein R is selected from: partially or fully fluorinated alkyl groups having from 1 to 12 carbon atoms; alkoxy groups having from 1 to 12 carbon atoms; esters having from 3 to 15 carbon atoms;

-SR¹, -N(R¹)₂, -P(R¹)₂, -SOR¹, -SO₂R¹, where R¹ is an alkyl group having from 1 to 12 carbon atoms;
 -NO₂; and
 beta-dicarbonyls having Formula XII



where:

in Formula XII:

R² is an alkyl group having from 1 to 12 carbon atoms and δ is 0, 1, or 2.

10-12. (Cancelled).

13. (Currently Amended) The copolymer of Claim 1, wherein one or more of the at least one second monomeric unit has one of Formulae VI through VIII wherein:

R groups are preferably H, C₆-C₁₂ alkyl groups, C₆-C₂₀ aryl groups, and C₂-C₂₀ heteroaryl groups; and

in Formula VI:

the E's are in the 1,4-, 1,5-, 1,8-, 2,3-, or 2,6- positions;

in Formula VII:

the E's are in the 1,4-, 1,5-, 1,8-, 2,3-, 2,6-, or 9,10- positions.

14. (Original) An electronic device comprising at least one electroactive layer comprising the copolymer of Claim 1.

15. (Original) The device of Claim 14, wherein the device comprises a hole injection/transport layer comprising the copolymer of Claim 1.

16. (Original) The device of Claim 14, wherein the device comprises an electron injection/transport layer comprising the copolymer of Claim 1.

17. (Original) The device of Claim 14, wherein the electroactive layer comprises a light-emitting material comprising the copolymer of Claim 1.

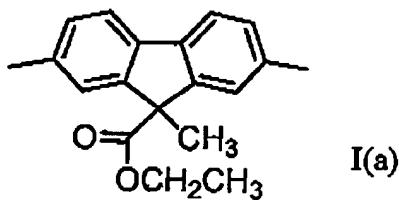
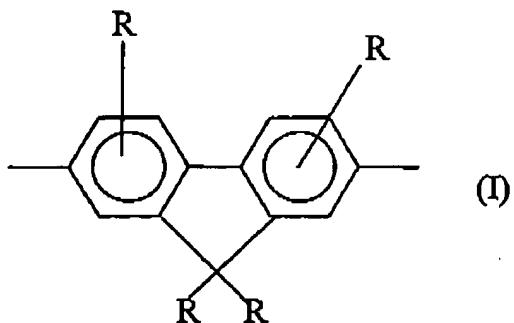
18. (Cancelled).

19. (Original) The device of Claim 14, wherein the device is selected from a light-emitting device, a photodetector, and a photovoltaic device.

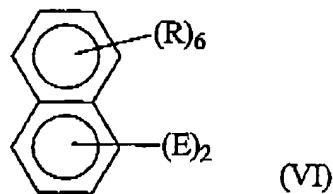
20. (Original) The device of Claim 14, wherein the device is an electroluminescent display.

21. (Currently Amended) A light-emitting device comprising at least one light-emitting layer comprising the copolymer of formula

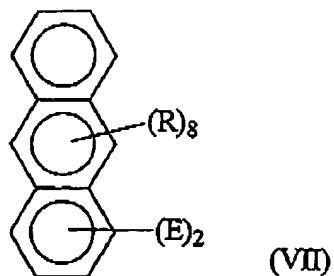
at least one first monomeric unit and at least one second monomeric unit, wherein the at least one first monomeric unit has a Formula I and I(a)



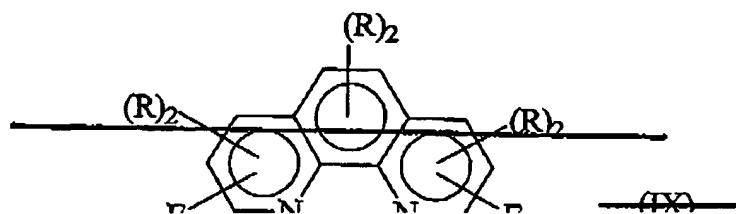
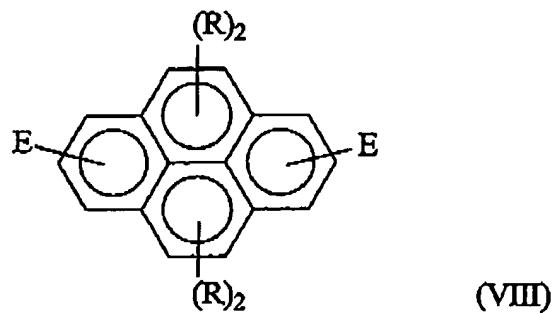
and the at least one second monomeric unit is selected from fused ring aromatic groups having Formula VI,

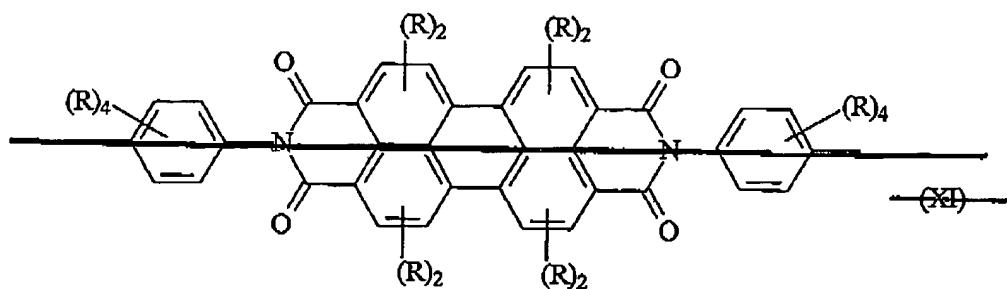
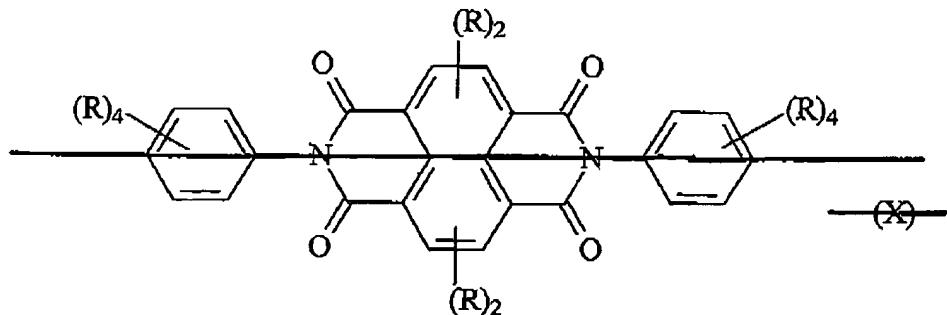


Formula VII.



and Formula VIII through Formula XI,

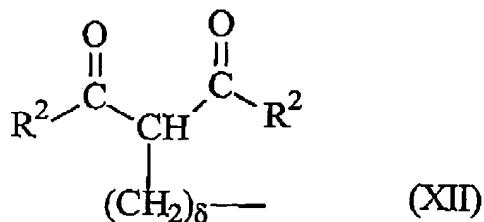




where:

in each of Formulae I, I(a), VI, VII, VIII through XI:

R is a substituent on a carbon atom which can be the same or different at each occurrence and is selected from hydrogen, alkyl, aryl, heteroalkyl, heteroaryl, F, -CN, -OR¹, -CO₂R¹, -C_ψH_θF_λ, -OC_ψH_θF_λ, -SR¹, -N(R¹)₂, -P(R¹)₂, -SOR¹, -SO₂R¹, -NO₂, and beta-dicarbonyls having Formula XII



and as further described below under "Formula XII"; or wherein
R² is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl;
δ is 0 or an integer from 1 to 12 and adjacent R groups together can form a 5- or 6-
membered cycloalkyl, aryl, or heteroaryl ring,
such that:
R¹ is a substituent on a heteroatom which can be the same or different at each
occurrence and is selected from alkyl, aryl, heteroalkyl and heteroaryl; and
ψ is an integer between 1 and 20, and θ and λ are integers satisfying Equation A1
below:

$$\theta + \lambda = 2\psi + 1; \quad (\text{Equation A1});$$

in each of Formulae VI, VII, VIII, and IX:
E can be the same or different at each occurrence and is a single bond or a linking
group selected from arylene and heteroarylene;
in Formula VI:
the two E's are in the 1,4-, 1,5-, 1,8-, 2,3-, or 2,6- positions;
in Formula VII[[.:.]]:
the two E's are in the 1,4-, 1,5-, 1,8-, 2,3-, 2,6-, or 9,10- positions;
in Formula VIII[[.:.]]:
a first E is in the 1, 2, or 3 position, a second E is in the 6, 7, or 8 position;
in Formula IX[[.:.]]: and
a first E is in the 2, 3, or 4 position; a second E is in the 7, 8, or 9 position; and
in Formula XII[[.:.]]:
R² is selected from hydrogen, alkyl, aryl, heteroalkyl and heteroaryl;
δ is 0 or an integer from 1 to 12.
with the proviso that said copolymer does not consist of 9,9-di-n-octylfluorene and
unsubstituted naphthalene alternating copolymer.